

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An active matrix electroluminescent display device comprising an array of display pixels, each pixel comprising:

an electroluminescent (EL) display element (2);

a drive transistor (22) for driving a current through the display element (2);

an address transistor (16) for providing a pixel drive signal from a data line to the gate of the drive transistor (22); and

a shorting transistor (30) connected between the gate and drain of the drive transistor,

wherein the display device further comprises means (42) for measuring a voltage on the data line (6) after the shorting transistor (30) is turned on and discharges the voltage on the drive transistor (22) until the drive transistor(22) switches off; and a single storage capacitor (24) is directly connected between a power supply line (26) and the gate of the drive transistor (22); and

wherein the data input line (6) is switchable between a voltage driving mode in which it provides voltages to the pixels connected to the line and a floating mode in which the data line is placed in a high impedance state thereby allowing the data line to float to the voltage of the gate of the drive transistor of an addressed pixel.

2. (original) A device as claimed in claim 1, wherein the EL display element (2) and the drive transistor (22) are connected in series between first (26) and second (34) power lines.

3. (original) A device as claimed in claim 2, wherein the voltage on the second power line (34) is switchable between two values, one of which causes the EL display element (2) to be turned off.

4. (Cancelled).

5. (previously presented) A device as claimed in claim 1, wherein each pixel is operable in two modes:

a first, threshold voltage measuring mode, in which the display element is disabled, the address transistor is turned on and the shorting transistor is turned on; and

a second, pixel drive mode, in which the display element is enabled, the address transistor is turned on and the shorting transistor is turned off.

6. (original) A device as claimed in claim 5, wherein during the first, threshold voltage measuring mode, during a first period (40) a predetermined voltage is applied to the data line so that a current is driven through the drive transistor (22) and during a second period (42) the data line is allowed to float so that the voltage on the data line (6) substantially follows the gate voltage of the drive transistor (22).

7. (previously presented) A device as claimed in claim 1, wherein the drive transistor (22) is a poly-silicon TFT.

8. (original) A device as claimed in claim 7, wherein the drive transistor (22) is a low temperature poly-silicon TFT.

9. (previously presented) A device as claimed in claim 1, further comprising a storage capacitor (24) between the gate and source of the drive transistor (22).

10. (Currently Amended) A method of addressing the pixels of an active matrix electroluminescent display device, comprising an electroluminescent (EL) display element (2) and a drive transistor (22) for driving a current through the display element (2), the method comprising:

disabling the display element (2);

applying a first voltage to a data line (6);

coupling a power supply line (26) directly to the gate of the drive transistor (22) by a single storage capacitor (24);

driving a current through the drive transistor (22), through a shorting transistor (30) connected between the gate and drain of the drive transistor and through an address transistor (16) connected between the gate of the drive transistor and the data line (6);

allowing the data line (6) electrically to float in which the data line is placed in a high impedance state thereby allowing the data line to float to the voltage of the gate of the drive transistor of an addressed pixel;

measuring a voltage on the data line (6); and

modifying a data voltage to be applied to the drive transistor (22) using the voltage measured on the data line.

11. (original) A method as claimed in claim 10, wherein disabling the display element comprising applying a disable voltage to a terminal of the display element.

12. (original) A method as claimed in claim 11, wherein disabling the display element comprising applying a disable voltage to terminal (34) of the display element (2) which is common to all display elements.

13. (previously presented) A method as claimed in claim 10, further comprising enabling the display element (2), and addressing the pixel with the modified data voltage on the data line, with the shorting transistor turned off.